Amendment to the Claims

(currently amended) An electromagnetic device comprising:

 a plurality of adjoining sensor layers disposed adjacent to a media-facing surface,

a pair of electrically conductive layers disposed adjacent to said mediafacing surface and adjoining at least one of said sensor layers,

wherein said electrically conductive layers are separated from each other by a first distance at a first location adjacent to said media-facing surface, and said electrically conductive layers are separated from each other by a second distance at a second location within ten microns of said media-facing surface, such that said second distance is at least twice said first distance, and said first distance is less than one-quarter micron.

- 2. (original) The device of claim 1, wherein: said second distance is at least four times said first distance.
- 3. (currently amended) The device of claim 1, wherein:

 said first distance is less than one half micron, and
 said second distance is at least four microns.
- 4. (original) The device of claim 1, wherein an area between said electrically conductive layers has a shape substantially matching a profile of a wineglass.
- 5. (original) The device of claim 1, wherein said electrically conductive layers have a magnetic moment each adjoin a plurality of said sensor layers.
- 6. (original) The device of claim 1, wherein:

 at least one of said electrically conductive layers has an edge that is removed from said media-facing surface, and said edge has a serpentine shape.



7. (original) The device of claim 1, wherein:

said sensor layers have a first edge disposed adjacent to said media-facing surface and a second edge disposed distal to said media-facing surface,

said first distance is measured at a location closer to said media-facing surface than said second edge, and

said second distance is measured at a location further from said mediafacing surface than said second edge.

8. (original) The device of claim 1, wherein:

said sensor layers include a first layer separated from a second layer by a nonmagnetic layer,

said first layer has a magnetic moment that is variable in response to an applied magnetic field, and

said second layer has a magnetic moment that is fixed in response to said applied magnetic field.

9. (original) The device of claim 1, wherein said electrically conductive layers are electrical leads.



10. (currently amended) An electromagnetic device comprising:

a solid body having a leading end separated from a trailing end in a lengthwise direction, a media-facing surface separated from a non-media-facing surface in a heightwise direction, and a pair of sides separated from each other in a widthwise direction,

a plurality of adjoining sensor layers extending adjacent to said mediafacing surface,

a pair of electrically conductive leads disposed adjacent to said mediafacing surface and separated from each other by a submicron track width that is in a range between one-quarter micron and one nanometer, at least one of said leads having a height measured in said heightwise direction,

wherein said lead height measured at a first location that is distal to said track width is at least twice said lead height measured at a second location that is adjacent to said track width.

- 11. (original) The device of claim 10, wherein said first electrically conductive lead is magnetic.
- 12. (currently amended) The device of claim 10, wherein:

 wherein said lead height measured at said first location is at least four times said lead height measured at said second <u>location</u>.
- 13. (currently amended) The device of claim 10, wherein:

said lead adjoins said sensor layers at said first second location and said lead does not adjoin said sensor layers at said second first location.

- 14. (original) The device of claim 10, wherein an area between said leads is shaped like a profile of a wineglass.
- 15. (original) The device of claim 10, wherein said lead layers have a magnetic moment.

- 16. (original) The device of claim 10, wherein at least one of said lead layers has an edge that is removed from said media-facing surface and that has a serpentine shape.
- 17. (original) An electromagnetic device comprising:

 a plurality of adjoining active layers disposed over a substrate,

 a mask disposed over said active layers, said mask having upper and lower

 mask layers, said upper layer having a first thickness and said lower layer having a

 second thickness,

said lower mask layer having a plurality of regions adjoining one of said active layers, with a void separating said regions,

said upper mask layer adjoining said regions and extending as a bridge over said void, said bridge having a length measured between said regions and a submicron width measured perpendicular to said length and to said first thickness.

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- 18. (canceled)
- 19. (canceled)
- 20. (canceled)
- 21. (canceled)
- 22. (canceled)

23. (new) An electromagnetic device comprising:

a plurality of adjoining sensor layers disposed adjacent to a media-facing surface, one of said sensor layers extending a first distance in a track width direction between two edges, and

a pair of electrically conductive layers disposed adjacent to said mediafacing surface and adjoining said one sensor layer, said electrically conductive layers separated from each other in the track width direction by a second distance that is less than one-half said first distance, less than two hundred nanometers and more than one nanometer.



- 24. (new) The device of claim 23, wherein said electrically conductive layers each include a plurality of layers.
- 25. (new) The device of claim 23, wherein said electrically conductive layers adjoin a plurality of said sensor layers.
- 26. (new) The device of claim 23, wherein said electrically conductive layers each include a plurality of layers.